ABSTRACT

A photosensitive film excellent in workability and making it possible, in a normal pressure laminating process, to laminate photosensitive films on the surface of substrate having a metallic surface with a reduced number of air voids generated and in a high product yield, said film comprising a support film (A), a photosensitive resin composition-containing photosensitive resin layer (B) formed on said support (A) and a protecting film (C) further stuck on said layer (B), wherein the number of fish eyes having a diameter of at least 80 μ m included in the protecting film (C) does not exceed 5 fish eyes/m².

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

| A1

(11) International Publication Number:

WO 99/15936

(43

JP

(43) International Publication Date:

1 April 1999 (01.04.99)

(21) International Application Number:

PCT/JP98/04184

(22) International Filing Date:

G03F 7/09, 7/16

17 September 1998 (17.09.98)

(81) Designated States: KR, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,

NL, PT, SE).

(30) Priority Data:

9/254816

19 September 1997 (19.09.97)

Published

With international search report.

(71) Applicant (for all designated States except US): HITACHI CHEMICAL COMPANY, LTD. [JP/JP]; 1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0449 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KIMURA, Jinko [JP/JP]; Mutsumiryo 307, 4-14-10, Motomiyacho, Hitachi-shi, Ibaraki 317-0054 (JP). ISHIKAWA, Chikara [JP/JP]; 1325, Akahama, Takahagi-shi, Ibaraki 318-0001 (JP). TANAKA, Youji [JP/JP]; 3-7-13, Ayukawacho, Hitachi-shi, Ibaraki 316-0036 (JP). TAKANO, Shinji [JP/JP]; 4-29-9, Nishinarusawacho, Hitachi-shi, Ibaraki 316-0032 (JP). MINAMI, Yoshitaka [JP/JP]; 5-17-15, Takasuzucho, Hitachi-shi, Ibaraki 317-0066 (JP).

(74) Agents: ASAMURA, Kiyoshi et al.; New Ohtemachi Building, Room 331, 2-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-0004 (JP).

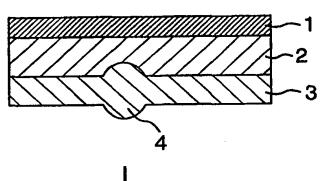
THEVI

(54) Title: PHOTOSENSITIVE ELEMENT COMPRISING A PROTECTIVE FILM

(57) Abstract

A photosensitive film excellent in workability and making it possible, in a normal pressure laminating process, to laminate photosensitive films on the surface of substrate having a metallic surface with a reduced number of air voids generated and in a high product yield, said film comprising a support film (A), a photosensitive resin composition-containing photosensitive resin layer (B) formed on said support (A) and a protecting film (C) further stuck on said layer (B), wherein the number of fish eyes having a diameter of at least 80 µm included in the protecting film (C) does not exceed 5 fish eyes/m².

Α



LAMINATION

B

